

STEREO POWER AMPLIFIER

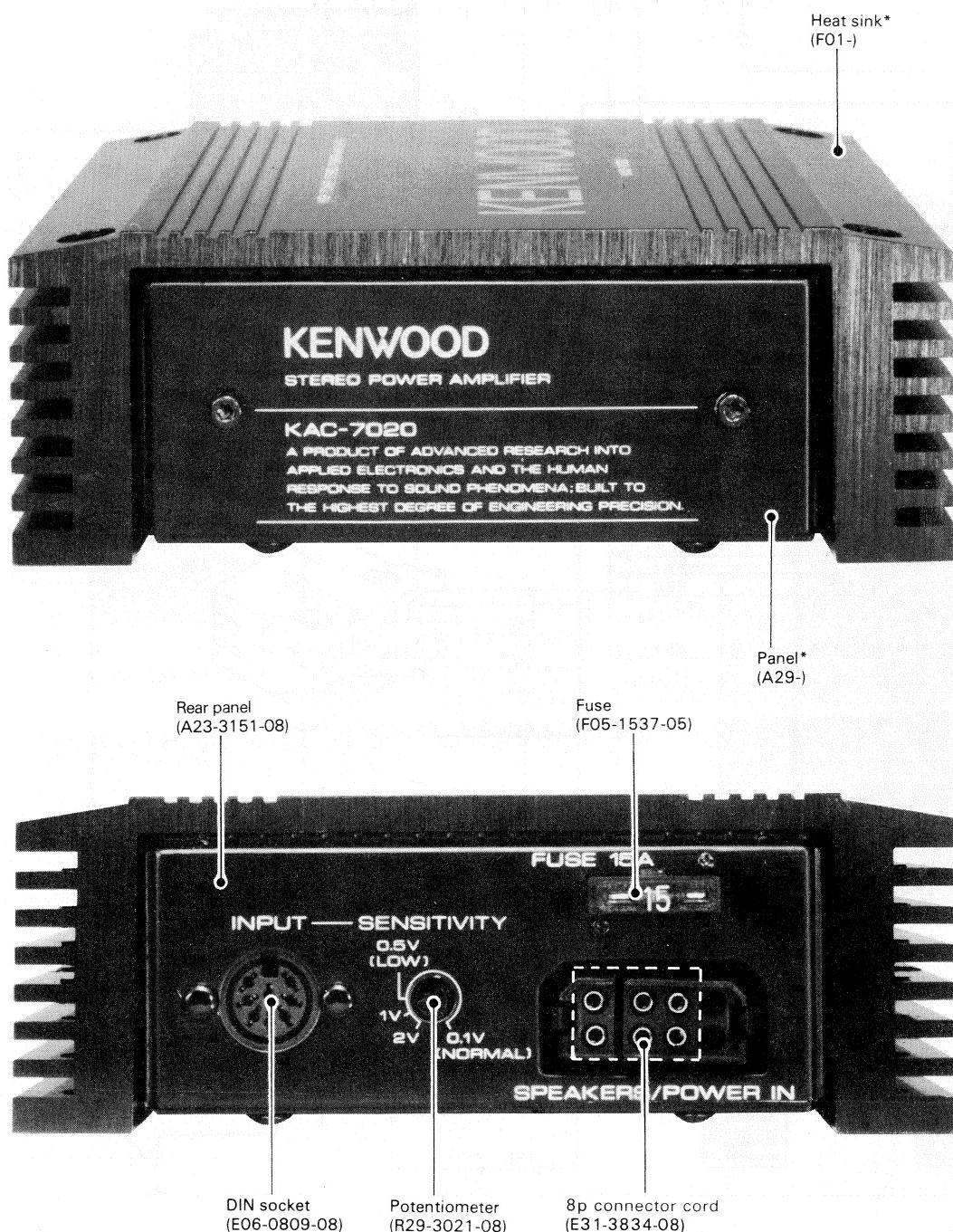
KAC-7020

SERVICE MANUAL

KENWOOD

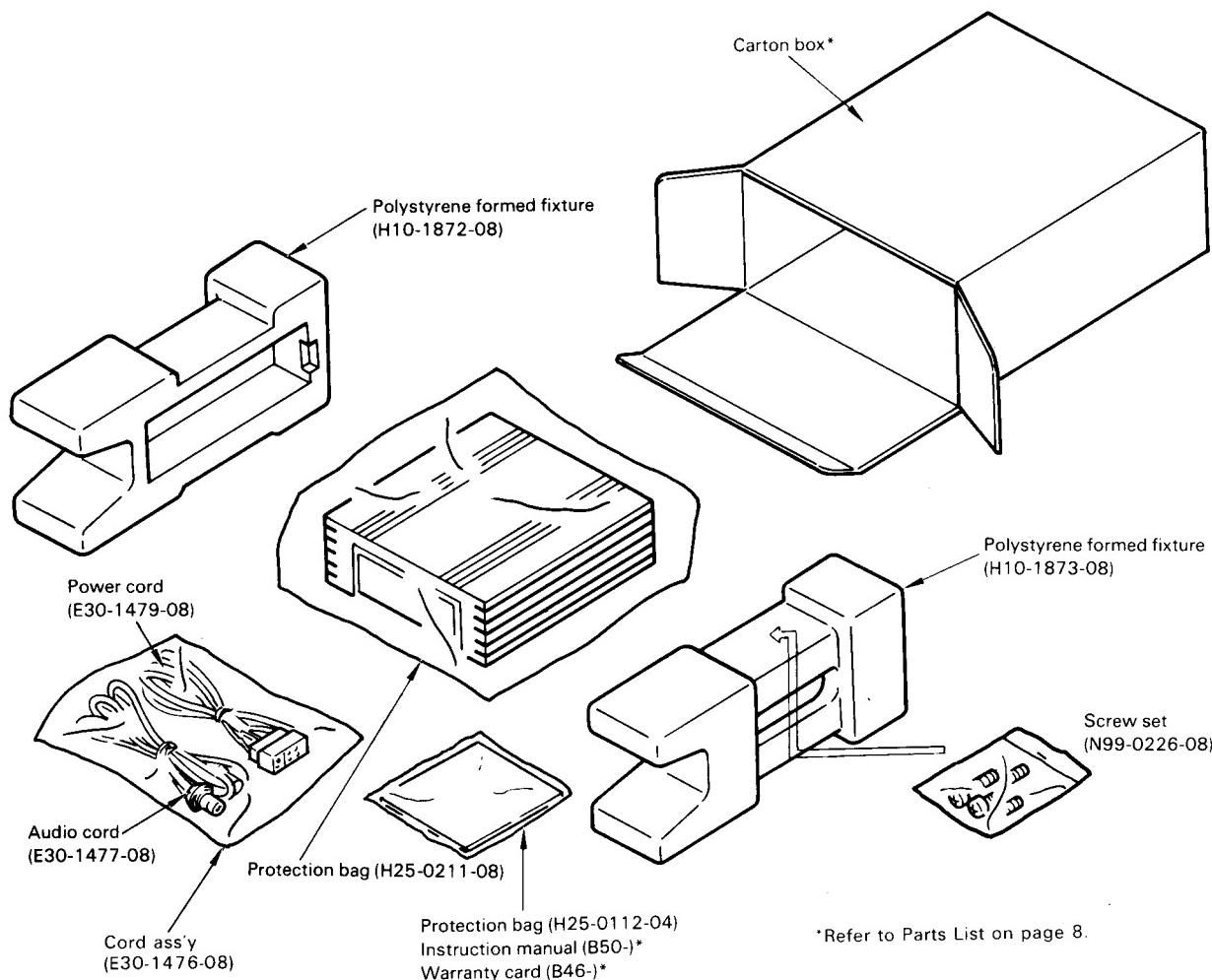
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REVISED (1)



*Refer to parts list on page 8.

This Service Manual is a revised version, which applies to units with Serial No. 71M10001 and after. The difference from the previous version lies in the modification of PC boards and circuit diagrams.



SPECIFICATIONS

Main amp section

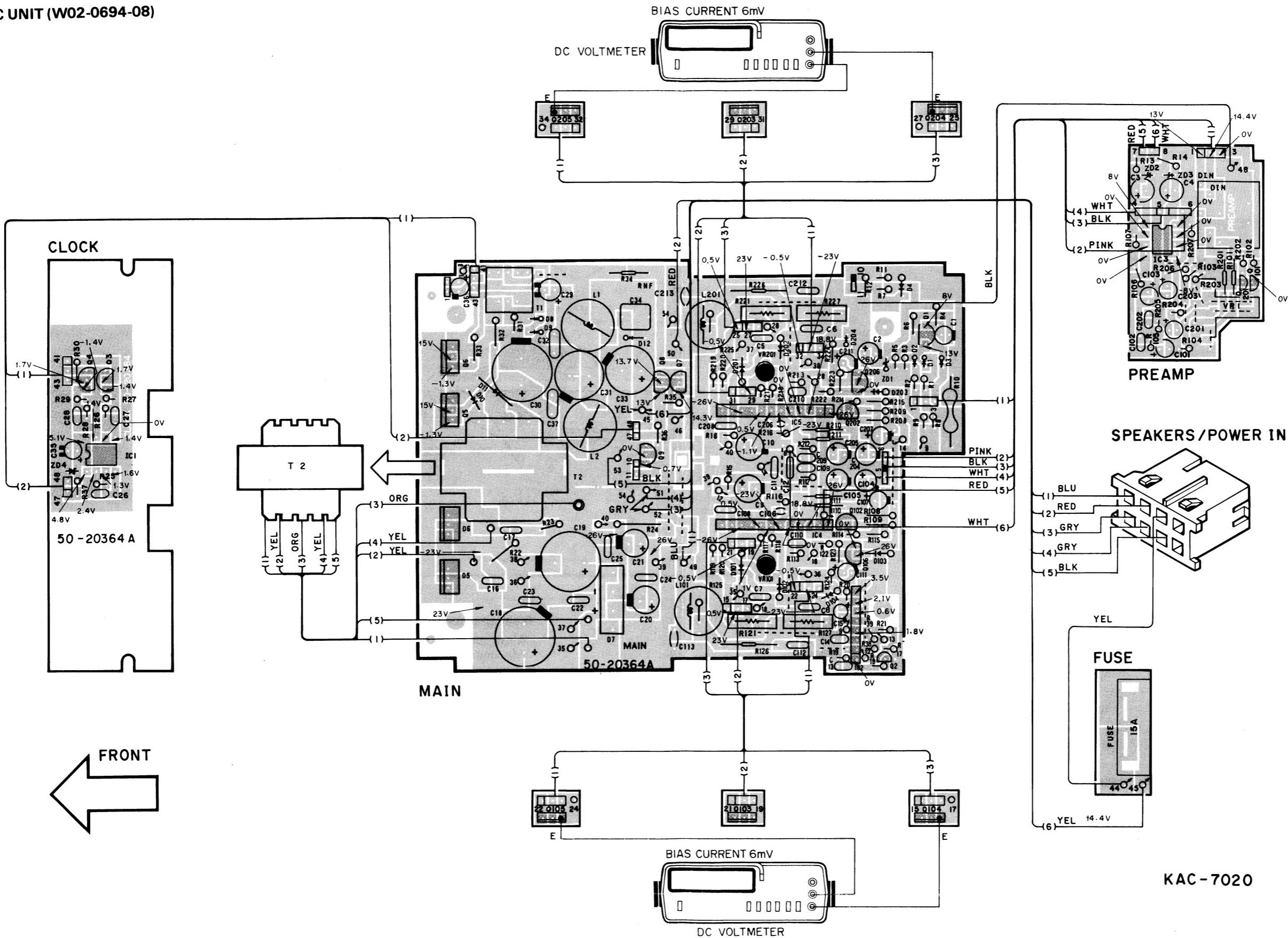
General

Operating voltage (GND).....	14.4 V (11 - 16 V)
Current consumption.....	9.5 A
Dimensions (W × H × D)	150 × 150 × 54 mm
Weight	1.7 kg

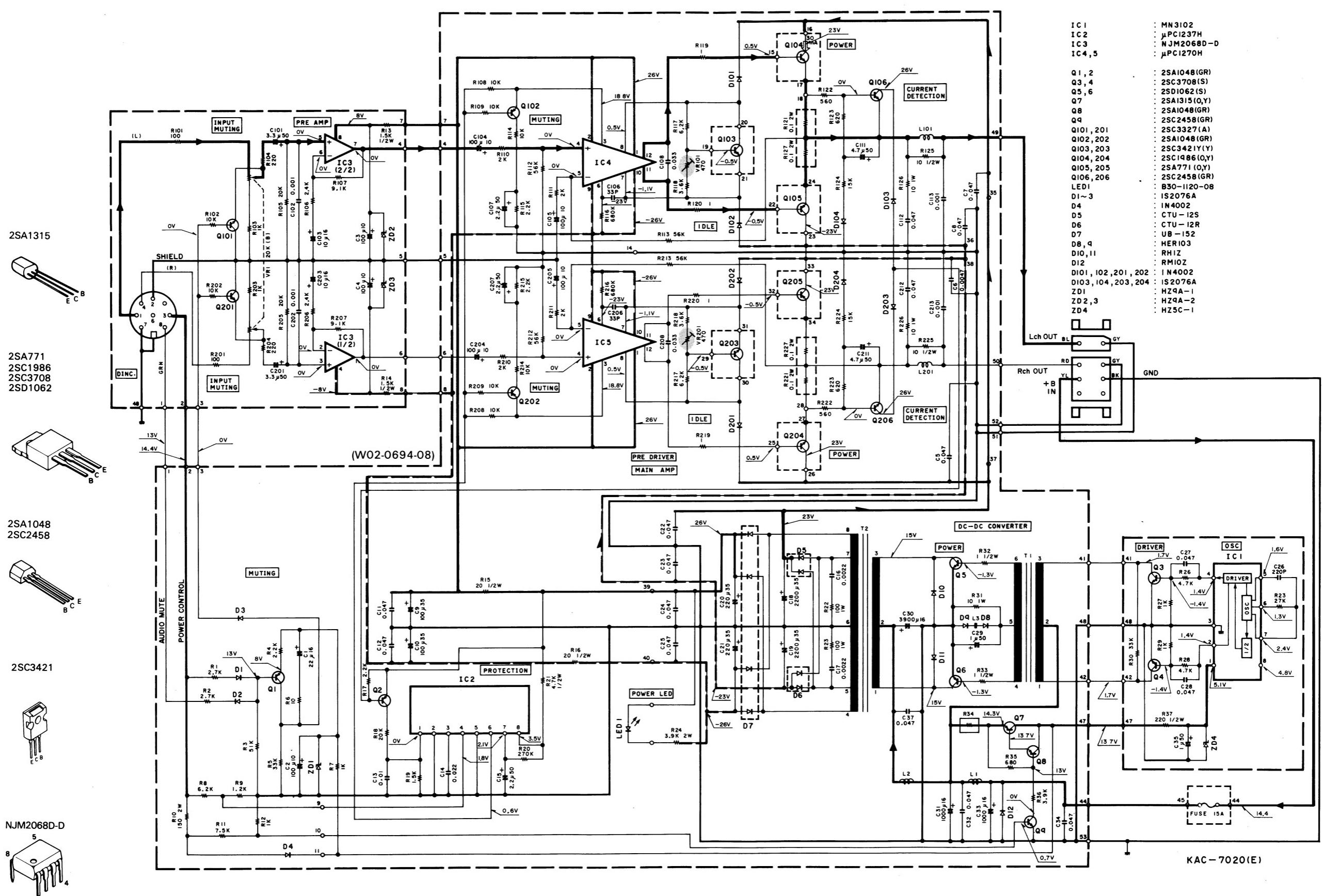
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

PC BOARD

ELECTRIC UNIT (W02-0694-08)



KAC-7020



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units.

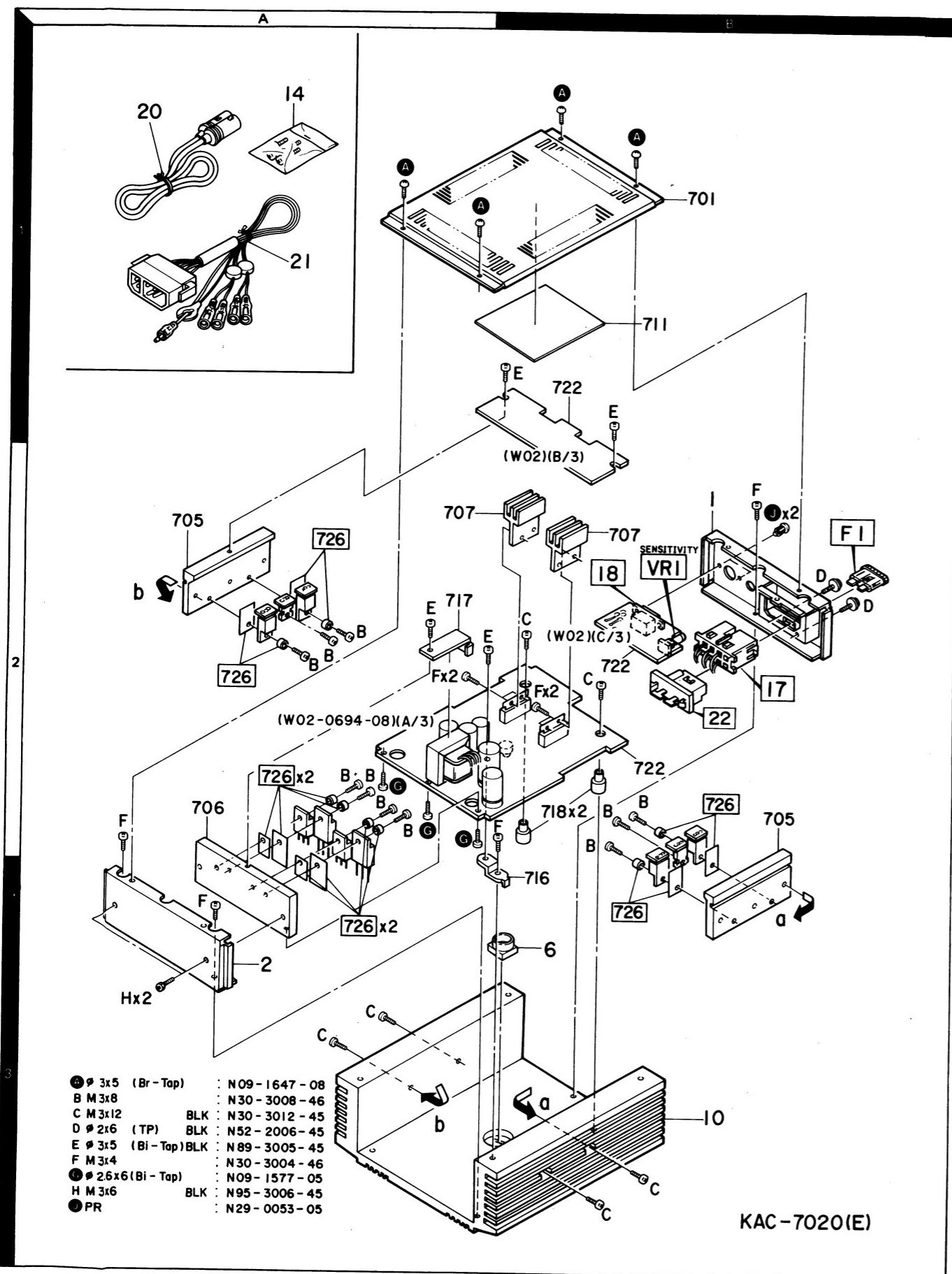
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

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EXPLODED VIEW



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規 格				Desti- nation 仕 向	Re- marks 備考
C102			CE92M1H102K	MYLAR	1000PF	K			
C103			CEO4DW1C100M	ELECTRQ	10UF	16WV			
C104, 105			CEO4DW1A101M	ELECTRQ	1000UF	10WV			
C106			CC45CH1H330J	CERAMIC	33PF	J			
C107			CEO4DW1H2R2M	ELECTRQ	2. 2UF	50WV			
C108			CD92M1H333K	MYLAR	0. 033UF	K			
C111			CEO4DW1H2R2M	ELECTRQ	2. 2UF	50WV			
C112			CF92V1H473J	MF	0. 047UF	J			
C113			CK45B1H102K	CERAMIC	1000PF	K			
C201			CEO4DW1H3R3M	ELECTRQ	3. 3UF	50WV			
C202			CD92M1H102K	MYLAR	1000PF	K			
C203			CEO4DW1C100M	ELECTRQ	10UF	16WV			
C204, 205			CEO4DW1A101M	ELECTRQ	1000UF	10WV			
C206			CC45CH1H330J	CERAMIC	33PF	J			
C207			CEO4DW1H2R2M	ELECTRQ	2. 2UF	50WV			
C208			CD92M1H333K	MYLAR	0. 033UF	K			
C211			CEO4DW1H2R2M	ELECTRQ	2. 2UF	50WV			
C212			CF92V1H473J	MF	0. 047UF	J			
C213			CK45B1H102K	CERAMIC	1000PF	K			
18	2B		E31-3834-08	8P CONNECTOR CORD					
17	2B		E06-0809-08	DIN SQTET					
20	1A		E30-1477-08	AUDIN CORD					
21	1A		E30-1479-08	CONNECTING CORD ASSY					
F1	2B		F05-1537-05	FUSE	(15A)				
22	2B		J13-0063-08	FUSE HOLDER					
L1 ,2			L33-0317-08	CHOKE COIL					
L3			L92-0016-08	FERRITE BEAD CORE					
L101			L39-0113-08	COIL					
L201			L39-0113-08	COIL					
T1			L19-0045-08	DRIVER TRANSFORMER					
T2			L19-0044-08	PULSE TRANSFORMER					
R10			RS14DB3D151J	FL-PRQQF RS	150	J	2W		
R13 ,14		*	RD14CB2H152J	RD	1. 5K	J	1/2W		
R15 ,16		*	RD14CB2H200J	RD	20	J	1/2W		
R21		*	RD14CB2H472J	RD	4. 7K	J	1/2W		
R22 ,23			RS14DB3A101J	FL-PRQQF RS	100	J	1W		
R24		*	RS14DB3A392J	FL-PRQQF RS	3. 9K	J	1W		
R31			RS14DB3A100J	FL-PRQQF RS	10	J	1W		
R32 ,33		*	RD14CB2H010	RD	1. 0	J	1/2W		
R34			R92-0351-08	RN	1	K	1/4W		
R37		*	RD14CB2H271J	RD	270	J	1/2W		
R121			R92-0266-08	RESISTQR	0. 1	J			
R125			RD14CB2H100J	RD	10	J	1/2W		
R126			RS14DB3A100J	FL-PRQQF RS	10	J	1W		
R127			R92-0266-08	RESISTQR	0. 1	J			
R221			R92-0266-08	RESISTQR	0. 1	J			
R225			RD14CB2H100J	RD	10	J	1/2W		
R226			RS14DB3A100J	FL-PRQQF RS	10	J	1W		
R227			R92-0266-08	RESISTQR	0. 1	J			
VR1			R29-3021-08	POTENTIOMETER(20KB) SENSITIVITY					
VR101			R12-1054-05	TRIMMING PNT. (1KB) IDLE					
VR201			R12-1054-05	TRIMMING PNT. (1KB) IDLE					

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE: AAFES(Europe) X: Australia

 indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規 格	Desti- nation 仕 向	Re- marks 備考
D1			1S2076A	DIODE		
D3			1S2076A	DIODE		
D4			1N4002	DIODE		
D5			CTU-12S	DIODE		
D6			CTU-12R	DIODE		
D7			UB-152	DIODE		
D8 ,9			HER103	DIODE		
D10 ,11			RH1Z	DIODE		
D12			RM10Z	DIODE		
D101,102			1N4002	DIODE		
D103,104			1S2076A	DIODE		
D201,202			1N4002	DIODE		
D203,204			1S2076A	DIODE		
IC1			MN3102	IC(CLOCK GENERATOR/V OPERATION		
IC2			UPC1237H	IC(PROTECTION)		
IC3			NJM2068D-D	IC(OP AMP X2)		
IC4 ,5			UPC1270H	IC(POWER AMP))		
Q1 ,2			2SA1048(GR)	TRANSISTOR		
Q3 ,4			2SC3708(S)	TRANSISTOR		
Q5 ,6			2SD1062(S)	TRANSISTOR		
Q7			2SA1315(Y,N)	TRANSISTOR		
Q8			2SA1048(GR)	TRANSISTOR		
Q9			2SC2458(GR)	TRANSISTOR		
Q101			2SC3327(A)	TRANSISTOR		
Q102			2SA104B(GR)	TRANSISTOR		
Q103	*		2SC3421(Y,N)	TRANSISTOR		
Q104	*		2SA1986(Y,G)	TRANSISTOR		
Q105	*		2SA771(Y,G)	TRANSISTOR		
Q106			2SC2458(GR)	TRANSISTOR		
Q201			2SC3327(A)	TRANSISTOR		
Q202			2SA1048(GR)	TRANSISTOR		
Q203	*		2SC3421(Y,N)	TRANSISTOR		
Q204	*		2SA1986(Y,G)	TRANSISTOR		
Q205	*		2SA771(Y,G)	TRANSISTOR		
Q206			2SC2458(GR)	TRANSISTOR		
ZD1			HZ9A-1	ZENER DIODE		
ZD2 ,3			HZ9A-2	ZENER DIODE		
ZD4			HZ5C-1	ZENER DIODE		
SCREW SET (N99-0226-05)						
-			N44-4014-46	SCREW	(Ø4X14)	

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Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.